ADOBE READER® AND ACROBAT®
IFILTER CONFIGURATION

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Overview of PDF iFilter 11 for 64-bit platforms

Adobe® PDF iFilter is designed for end users or administrators who wish to index Adobe PDF documents using Microsoft indexing clients. This allows the user to easily search for text within Adobe PDF documents.

Key benefits:

- Integrates with existing operating systems and tools on your computer or within your company
- Provides an easy solution to search within Adobe PDF documents located on your computer, company network, and company intranet
- Greatly increases your ability to accurately locate information

Adobe currently bundles a 32-bit PDF iFilter with Adobe Acrobat® 11 as well as free Adobe Reader® 11 software. It uses the Microsoft iFilter interface and allows third-party indexing tools to extract text from Adobe PDF files.

Installation

Installing the Adobe PDF IFilter

1. Download Adobe PDF iFilter 11 from
2. Run the executable.

Setting the Path

1. (Sharepoint only): Stop the IIS Admin service by choosing Start > Settings > Control Panel > Administrator Tools > Services > IIS Admin Service > Stop. Close the window.
2. Set the PATH environment variable to ‘bin’ folder of ‘iFilter’ installation. For e.g., in the PATH variable, add/append the path ‘C:\Program Files\Adobe\Adobe PDF iFilter 11 for 64-bit platforms\bin\’ and then restart the machine.
3. Windows 7 64 bit
   - Select Computer from the Start menu.
   - Choose System Properties from the context menu.
   - Click Advanced system settings > Advanced tab.
   - Click on Environment Variables, under System Variables, find PATH, and click on it.
4. Windows 8 64 bit
   - Control Panel > System > Advanced.
   - Click on Environment Variables, under System Variables, find PATH, and click on it.
5. Windows XP 64 bit
   - Start > Control Panel > System > Advanced.
   - Click on Environment Variables, under System Variables, find PATH, and click on it.
Uninstalling

1. Open the Start Menu and select “Control Panel”.
2. Click on the “Add or Remove Programs” tab.
3. Click on the “Adobe PDF iFilter 11 for 64-bit platforms” record and then on the “Remove” button to uninstall it.
4. Remove the Adobe iFilter 11 path in environment variable

Updating

To install a newer version of the iFilter:

1. Uninstall any existing versions.
2. Restart the machine.
3. Install the new version as described above.

Adobe PDF iFilter for Windows Desktop Search (WDS)

WDS functionality is already built into Windows 7 64 bit and Window 8 64 bit.

Indexing Adobe PDF documents

With Adobe PDF iFilter, WDS is able to index PDF properties and file contents. After installing Adobe PDF iFilter, please note that “Index Properties and File Contents” will be selected automatically in File Types tab of Advanced Options dialog box.
1. Open Indexing and Search Options by opening Control Panel. In the search box, type indexing options, and then click Indexing Options.
2. Click Advanced. (If you’re prompted for an administrator password or confirmation, type the password or provide confirmation.)
3. In the Advanced Options dialog box, click the File Types tab.

Change advanced indexing options - Setting index locations

1. Open Indexing and Search Options by opening Control Panel.
2. In the search box, type indexing options.
3. Choose Indexing Options.
4. Click the Modify button to add or remove specific files/folders from the search index.
5. In the Indexed Locations dialog box, select the locations that you want.
6. Choose OK.
Searching Adobe PDF documents

1. Click to open a folder that contains the Adobe PDF documents that you want to search.
2. Type a word or part of a word in the search box.

Search is included as an uninstalled option.

Installing Windows Search

To install Windows Search, follow these steps:

1. Start Server Manager.
2. In the left pane, expand the Roles node.
3. Click File Services.
4. In the right pane, scroll down to the Roll Services section.
5. Click Add Role Services, and then click Next.
6. Click to select the Windows Search Service check box, and then click Next.
7. Select the storage device that you want to add to the index, and then click Next.
8. Click Install.

Indexing Adobe PDF documents

With Adobe PDF iFilter, WDS is able to index PDF properties and file contents. After installing Adobe PDF iFilter, please note that "Index Properties and File Contents" will be selected automatically in File Types tab of Advanced Options dialog box.

1. Open Indexing and Search Options by opening Control Panel. In the search box, type indexing options.
2. Choose Indexing Options.
3. Click Advanced. (If you're prompted for an administrator password or confirmation, type the password or provide confirmation.).
4. In the Advanced Options dialog box, click the File Types tab.
Searching Adobe PDF documents

1. Click to open a folder that contains the Adobe PDF documents that you want to search.
2. Type a word or part of a word in the search box.
Windows XP 64 bit Configuration


Indexing Adobe PDF documents

With Adobe PDF iFilter, WDS is able to index PDF properties and file contents. After installing Adobe PDF iFilter, please note that "Index Properties and File Contents" will be selected automatically in File Types tab of Advanced Options dialog box.

1. Open Indexing Options by opening Control Panel.
2. In the search box, type indexing options.
3. Choose Indexing Options.
4. Click Advanced.
5. In the Advanced Options dialog box, click the File Types tab.

Searching Adobe PDF documents

1. Click to open a folder that contains the Adobe PDF documents that you want to search.
2. Click on the “Search” button on the Toolbar.
3. Type a word or part of a word in the search box.
4. Press Enter.

MS SQL Server (2008/2012) Configuration

Registering Adobe PDF iFilter

1. After the installation of Adobe PDF iFilter, execute the following commands to register Adobe PDF iFilter.
2. Run SQL Server Management Studio.
3. Launch the SQL Server Management Studio (SSMS).
4. Log in to a database server giving correct username/password.
5. Once you login, you will see tree view in SSMS. Expand a database which you would like to index for e.g. in this case: ifilter or Create a new functioning database to store PDF files.
6. Create a new database: right-click the Database folder in the Object Explorer and select New Database.
7. Type your Database name and click OK.
8. Click on the ‘New Query’ toolbar button and change the drop-down combo box from ‘master’ to ‘ifilter’ (Name of the database which you are trying to index).
9. In the right-hand side view, you can now enter T-SQL commands and execute them.
10. Click the "Database Engine Query" button on the toolbar, and execute the command to register Adobe PDF iFilter:
    ```
    Exec sp_fulltext_service 'load_os_resources', 1
    Exec sp_fulltext_service 'verify_signature', 0
    ```
11. Restart the server or stop and start SQL server and the Full-text Search engine.

13. Check whether Adobe IFilter is registered with the server. In a new query window type and execute the following:

```
SELECT * from sys.fulltext_document_types
```

OR

```
SELECT document_type, path from sys.fulltext_document_types where document_type = '.pdf'
```

You should see a list of installed filters in the output window. Verify if you see entry for PDF (.pdf) with correct path set. If you do not see an entry for `.pdf` then you need to execute the following two lines:

```
EXEC sp_fulltext_service 'load_os_resources', 1
EXEC sp_fulltext_service 'verify_signature', 0
```

Create a new functioning database to store PDF files

1. Create a new table in the database by executing the following query:

```
CREATE TABLE pdfifiltertable(
  PdfID INT IDENTITY NOT NULL,
  PdfFileName VARCHAR(MAX),
  Ext VARCHAR(10),
  PdfText VARBINARY(MAX),
  CONSTRAINT PK_PdfID PRIMARY KEY (PdfID)
)
```

2. Set up full-text search:

   A. Confirming the Full-text search service: Relaunch Microsoft SQL Server Management Studio, and execute the following command:
print FULLTEXTSERVICEPROPERTY('IsFullTextInstalled')

Results:
1= Full-Text installed
0= Full-Text not installed
Null= invalid input, or error

B. Install the Full-Text component and service to enable Full-Text indexing. In order to use Full-Text indexing function, you must first verify that Full-Text Indexing function has been enabled. To enable Full-text indexing, do one of the following:
  o Launch Microsoft SQL Server Management Studio. Right-click the database you have created > select Properties > choose Files tab > check “Use full-text indexing” > OK; or:
  o Execute the following command:
    exec sp_fulltext_database 'enable'

3. Create a full-text catalog to store full-text indexes by executing the following command:

```
CREATE FULLTEXT CATALOG pdfCatalog AS DEFAULT
GO
```

4. Create a full-text index by executing the following command:

```
CREATE FULLTEXT INDEX ON pdfifiltertable([PdfText] Type column [Ext])
    KEY INDEX PK_PdfID with change_tracking auto
GO
```

Uploading PDFs

Copy some files into the table to test if Adobe PDF iFilter is working properly. To upload PDF files to Microsoft SQL Server or you can either write a sample code or copy the code below (in C#).

```csharp
using System;
using System.IO;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
using System.Data.SqlClient;

namespace PDFifilter11Testing
{
    public partial class Form1 : Form
    {
        protected static string ConnectionString
```
protected static SqlConnection Connection
{
    get
    {
        return new SqlConnection(ConnectionString);
    }
}

protected DataTable pdfDataTable;
public Form1()
{
    InitializeComponent();
    populateDataGrid();
}

protected void populateDataGrid()
{
    SqlConnection con = Connection;
    con.Open();
    try
    {
        pdfDataTable = new DataTable();

        SqlCommand cmd = new SqlCommand("select * from pdfifiltertable", con);
        SqlDataAdapter adapter = new SqlDataAdapter(cmd);
        adapter.Fill(pdfDataTable);
        dataGridView.DataSource = pdfDataTable;
        dataGridView.Columns[3].Visible = false;
    }
    finally
    {
        con.Close();
    }
}

private void uploadPDF_Click(object sender, EventArgs e)
{
    if (DialogResult.Cancel == fileOpenDilalog.ShowDialog())
    {
        return;
    }
    try
    {
byte[] content = FileToByteArray(fileOpenDilalog.FileName);
uploadPDFBlob2DataBase(fileOpenDilalog.FileName, content);
    populateDataGrid();
} catch (Exception ex) {
    MessageBox.Show(ex.Message, "PDFiFilter11", MessageBoxButtons.OK, MessageBoxIcon.Error);
}
}
public byte[] FileToByteArray(string _FileName) {
    byte[] pdfBuffer = null;
    try {
        System.IO.BinaryReader _BinaryReader = new System.IO.BinaryReader(_FileStream);
        long TotalNumberOfBytes = new System.IO.FileInfo(_FileName).Length;
        pdfBuffer = _BinaryReader.ReadBytes((Int32)TotalNumberOfBytes);
        _FileStream.Close();
        _FileStream.Dispose();
        _BinaryReader.Close();
    } catch (Exception _Exception) {
        Console.WriteLine("Exception caught in process: {0}", _Exception.ToString());
    }
    return pdfBuffer;
}
public void uploadPDFBlob2DataBase(String fName, byte[] content) {
    SqlConnection con = Connection;
    con.Open();
    String ext, filename;
    ext = Path.GetExtension(fName);
    filename = Path.GetFileName(fName);
    try {
        SqlCommand insert = new SqlCommand(
"insert into pdfifiltertable ([PdfFileName],[Ext],[PdfText]) values (@pdfFileName),(@extension),(@pdfcontent))", con);
SqlParameter pdffilenameParameter = insert.Parameters.Add("@pdfFileName", SqlDbType.NVarChar);
pdffilenameParameter.Value = filename;
pdffilenameParameter.Size = filename.Length;
SqlParameter extParam = insert.Parameters.Add("@extension", SqlDbType.NVarChar);
extParam.Value = ext;
extParam.Size = ext.Length;
SqlParameter pdfcontentParameter = insert.Parameters.Add("@pdfcontent", SqlDbType.Binary);
pdfcontentParameter.Value = content;
pdfcontentParameter.Size = content.Length;
insert.ExecuteNonQuery();
}
finally {
    con.Close();
}
}

Searching PDFs

Now you are ready to query the index. In a new query window try the following:

SELECT pdfFileName
FROM pdfifiltertable
WHERE CONTAINS(PdfText, 'Adobe')
GO
Exchange Server 2010 Configuration

Register Adobe PDF iFilter

1. Update the registry entry.
   A. Open the registry editor.
   B. Go to HKLM\SOFTWARE\Microsoft\ExchangeServer\v14\MSSearch\CLSID\{E8978DA6-047F-4E3D-9C78-CDBE46041603}\n   C. Add the following String values:
      o Name: (Default), Value: C:\Program Files\Adobe\Adobe PDF iFilter 11 64-bit\bin\PDFFilter.dll
      o Add the following String (REG_SZ) value: ThreadingModel="Both"
      o Add the following DWORD value: "Flags"=dword:00000001

2. Go to HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\ExchangeServer\v14\MSSearch\Filters.
3. For this subkey, add the following String values:
   A. Create a key, Name: .pdf
   B. Name: (Default), Value: {E8978DA6-047F-4E3D-9C78-CDBE46041603}
4. Restart the Exchange Search service:
A. Open a command prompt.
B. Run iisreset.

5. Restart the Microsoft Search (Exchange) Service through the services console or typing the following commands in the Exchange Management Shell.
   A. Stop-Service msftesql-Exchange -Force.
   B. Start-Service MSExchangeSearch.

6. Index PDF attachments:
   A. Open a command prompt.
   B. Execute services.msc.
   C. Restart MSExchange Information Store service.

7. Recreate the index by executing following command on Exchange Management shell:
   A. cd $env:exchangeInstallpath\Scripts
   B. .\ResetSearchIndex.ps1 -Force -All

Wait for the indexing to finish before initiating search. The index will be created at the same location where Mailbox database is present.

**Searching Adobe PDF documents**

1. Open the website [https://localhost/owa](https://localhost/owa) or exchange server URL to open OWA (Outlook Web App).
2. Login the mailbox.
3. Enter your search terms.
Exchange Server 2007 Configuration

Register Adobe PDF iFilter

1. Open the registry editor.
2. Go to HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Exchange\MSSearch\CLSID\{E8978DA6-047F-4E3D-9C78-CDBE46041603}\.
3. For this subkey, add the following String values:
   A. Name: (Default), Value: C:\Program Files\Adobe\Adobe PDF iFilter 11 for 64-bit platforms\bin\PDFFilter.dll
   B. Add the following String (REG_SZ) value: ThreadingModel="Both"
   C. Add the following DWORD value: "Flags"=dword:00000001
4. Go to HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Exchange\MSSearch\Filters.
5. For this subkey, add the following String values
   A. Create a key, Name: .pdf
   B. Name: (Default), Value: {E8978DAD-047F-4E3D-9C78-CDBE46041603}

6. Stop and then restart the Exchange Search service. To do this, follow these steps:
A. Open a command prompt.
B. Execute: iisreset.
C. Execute: net stop msftesql-exchange.
D. Execute: net start msexchangesssearch.
E. Exit.

**Indexing PDF attachments**

1. Open a command prompt.
2. Execute services.msc.
3. Restart MSExchange Information Store service.
4. Recreate the index by executing following command on Exchange Management shell (Search this in Start Menu > All Programs):
   ```
   ResetSearchIndex.ps1 -force -all
   ```
   Wait for the indexing to finish before initiating a search. The index will be created at the same location where Mailbox database is present.

**Searching Adobe PDF documents**

1. Open the website https://localhost/owa or exchange server URL to open OWA (Outlook Web App).
2. Login to the mailbox.
3. Enter your search term.
MS SharePoint Server 2010 Configuration

Register the Adobe PDF iFilter

1. Download the Adobe PDF file icon from http://www.adobe.com/misc/linking.html#producticons or use the Adobe PDF file icon installed at \Program Files\Adobe\Adobe PDF iFilter 11 for 64-bit platforms\pdf.gif.

2. Copy Adobe PDF file icon to:
   - SharePoint 2010: \Program Files\Common Files\Microsoft Shared\Web Server Extensions\14\TEMPLATE\IMAGES\pdf.gif
   - SharePoint 2007: \Program Files\Common Files\Microsoft Shared\Web Server Extensions\12\TEMPLATE\IMAGES\pdf.gif

3. Add the mapping entry to the docIcon.xml file. To do this, follow these steps (Note: Steps are done in order to have the pdf icon in SharePoint while it displays the search results):
   A. Go to the docIcon.xml file located in the \Program Files\Common Files\Microsoft Shared\Web Server Extensions\14\TEMPLATE\XML folder.
   B. Open the docIcon.xml file in a text editor.
   C. Type the following entry in the docIcon.xml file: <Mapping Key="pdf" Value="pdf.gif" />
   D. Save and exit.
4. Add the .pdf file type to the SharePoint content index.
5. Verify that PDF has been added to the registry.
   
   A. Open the registry editor.
   
   B. Go to:
      
      - **SharePoint 2010**: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Office Server\14.0\Search\Applications\{site GUID}\Gather\Portal_Content\Extensions\ExtensionList
      - **SharePoint 2007**: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Office Server\12.0\Search\Applications\{site UID}\Gather\Portal_Content\Extensions\ExtensionList

   C. If the PDF extension is not present, right click on right-side Extension List pane and choose New > String Value.
   
   D. Add a name to the new Registry Key (e.g. "49").
   
   E. Double click the new Registry Key. For "Value data", enter "pdf".
6. Verify that PDF has the correct settings in a second registry location:
   A. Go to:
      - **SharePoint 2010**: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Office Server\14.0\Search\Setup\Filters\.pdf
      - **SharePoint 2007**: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Office Server\12.0\Search\Setup\Filters\.pdf
   B. Verify the following values. If values are not as shown, edit them:
      1. `<REG_SZ> Default = <value not set>`
      2. `<REG_SZ> Extension = pdf`
      3. `<REG_DWORD> FileTypeBucket = 1`
      4. `<REG_SZ> MimeTypes = application/pdf`

Verify that PDF has the correct settings in a third registry location.

A. Go to
   - **SharePoint 2010**: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Office Server\14.0\Search\Setup\ContentIndexCommon\Filters\Extension\.pdf
   - **SharePoint 2007**: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Office Server\12.0\Search\Setup\ContentIndexCommon\Filters\Extension\.pdf
   B. Verify the value: `<REG_MULTI_SZ> Default = {E8978DA6-047F-4E3D-9C78-CDBE46041603}`
7. Restart all SharePoint services as well as IIS.
   
   A. Open a command prompt.
   D. Execute: iisreset.

Upload Adobe PDF documents in SharePoint Document Center

Upload an Adobe PDF Document:

A. Go to the Shared Documents, and click Add new document.

B. Click the Browse button to upload an Adobe PDF document and click OK. (In Edit page, you can give the title, keywords, if you like, to your uploaded PDF file. Click the Save button).
When you are done, you will be returned to the Documents page where you will see that your PDF file has been uploaded.

8. Perform a Full Crawl on the Search content indexes:
   A. Go to the Search Service Application: Search Administration page.
   B. In the Crawling section, click Content Sources link.
   C. On the Manage Content Sources page, open the content source's context menu by left-clicking the down arrow and select Start Full Crawl to index all files. This will start the indexing process.
   D. On the Manage Content Sources page, open the content source's context menu by left-clicking the down arrow and select Start Full Crawl to index all files. This will start the indexing process.
Searching Adobe PDF documents

1. Go to the Shared Documents.
2. Go to All Documents page.
3. Type the text you want to search and press ENTER.
MS SharePoint Server 2007 Configuration

Register the iFilter as described in Register Adobe PDF iFilter.

Upload Adobe PDF documents in the SharePoint Document Center

1. Upload an Adobe PDF Document:
   A. Go to the Document Center.
   B. Choose Documents.
   C. Click Upload > Upload Document.
   D. Click the Browse button to upload a Adobe PDF document.
   E. Choose OK. When it has uploaded, the Documents Edit Item page appears.

   When you are done, you will be returned to the Documents page where you will see that your Adobe PDF document has been uploaded.

2. Perform a Full Crawl on the Search content indexes
   A. Go to the Shared Service Administration: SharedServices 1 home page.
   B. Open Shared Service Administration: SharedServices 1 home page.
   C. Choose Search Settings.
   D. Under Crawl Settings, choose Content sources and crawl schedules.
   E. On the Manage Content Sources page, open the content source's context menu by left-clicking the down arrow and select Start Full Crawl to index all files. This will start the indexing process.

Searching Adobe PDF documents

1. Go to the Document Center, and click Documents.
2. Click Search to visit the Search Center.
3. Type the text you want to search and press ENTER.